SEQUENCE LISTING

<110> Braun, A.

<120> POLYMORPHIC KINASE ANCHOR PROTEINS AND
   NUCLEIC ACIDS ENCODING THE SAME

<130> 24736-2035

<140> Not Yet Assigned
<141> 2001-04-12

<150> 60/217,251
<151> 2000-07-10

<150> 60/240,335
<151> 2000-10-13

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tccgggccgg ttgctga atg agg gga gcc ggg ccc tcc ccg cgc cag tcc        170
                  Met Arg Gly Ala Gly Pro Ser Pro Arg Gln Ser
                   1               5                      10

ccc cgc acc ctc cgt ccc gac ccg ggc ccc gcc atg tcc ttc ttc cgg      218
Pro Arg Thr Leu Arg Pro Asp Pro Gly Pro Ala Met Ser Phe Phe Arg
             15              20                  25

cgg aaa gtg aaa ggc aaa gaa caa gag aag acc tca gat gtg aag tcc      266
Arg Lys Val Lys Gly Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser
         30              35                  40

att aaa gct tca ata tcc gta cat tcc cca caa aaa agc act aaa aat      314
Ile Lys Ala Ser Ile Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn
     45              50                  55

cat gcc ttg ctg gag gct gca gga cca agt cat gtt gca atc aat gcc      362
His Ala Leu Leu Glu Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala
 60              65                  70                  75

att tct gcc aac atg gac tcc ttt tca agt agc agg aca gcc aca ctt      410
Ile Ser Ala Asn Met Asp Ser Phe Ser Ser Ser Arg Thr Ala Thr Leu
             80                  85                  90

aag aag cag cca agc cac atg gag gct gct cat ttt ggt gac ctg ggc      458
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Lys Lys Gln Pro Ser His Met Glu Ala Ala His Phe Gly Asp Leu Gly
            95              100          105

aga tct tgt ctg gac tac cag act caa gag acc aaa tca agc ctt tct    506
Arg Ser Cys Leu Asp Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser
        110              115              120

aag acc ctt gaa caa gtc ttg cac gac act att gtc ctc cct tac ttc    554
Lys Thr Leu Glu Gln Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe
        125              130              135

att caa ttc atg gaa ctt cgg cga atg gag cat ttg gtg aaa ttt tgg    602
Ile Gln Phe Met Glu Leu Arg Arg Met Glu His Leu Val Lys Phe Trp
140              145              150              155

tta gag gct gaa agt ttt cat tca aca act tgg tcg cga ata aga gca    650
Leu Glu Ala Glu Ser Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala
                160              165              170

cac agt cta aac aca atg aag cag agc tca ctg gct gag cct gtc tct    698
His Ser Leu Asn Thr Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser
                175              180              185

cca tct aaa aag cat gaa act aca gcg tct ttt tta act gat tct ctt    746
Pro Ser Lys Lys His Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu
        190              195              200

gat aag aga ttg gag gat tct ggc tca gca cag ttg ttt atg act cat    794
Asp Lys Arg Leu Glu Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His
        205              210              215

tca gaa gga att gac ctg aat aat aga act aac agc act cag aat cac    842
Ser Glu Gly Ile Asp Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His
220              225              230              235

ttg ctg ctt tcc cag gaa tgt gac agt gcc cat tct ctc cgt ctt gaa    890
Leu Leu Leu Ser Gln Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu
                240              245              250

atg gcc aga gca gga act cac caa gtt tcc atg gaa acc caa gaa tct    938
Met Ala Arg Ala Gly Thr His Gln Val Ser Met Glu Thr Gln Glu Ser
                255              260              265

tcc tct aca ctt aca gta gcc agt aga aat agt ccc gct tct cca cta    986
Ser Ser Thr Leu Thr Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu
        270              275              280

aaa gaa ttg tca gga aaa cta atg aaa agt ata gaa caa gat gca gtg    1034
Lys Glu Leu Ser Gly Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val
        285              290              295

aat act ttt acc aaa tat ata tct cca gat gct gct aaa cca ata cca    1082
Asn Thr Phe Thr Lys Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro
300              305              310              315

att aca gaa gca atg aga aat gac atc ata gca agg att tgt gga gaa    1130
Ile Thr Glu Ala Met Arg Asn Asp Ile Ile Ala Arg Ile Cys Gly Glu
                320              325              330

gat gga cag gtg gat ccc aac tgt ttc gtt ttg gca cag tcc ata gtc    1178
Asp Gly Gln Val Asp Pro Asn Cys Phe Val Leu Ala Gln Ser Ile Val
                335              340              345

ttt agt gca atg gag caa gag cac ttt agt gag ttt ctg cga agt cac    1226
Phe Ser Ala Met Glu Gln Glu His Phe Ser Glu Phe Leu Arg Ser His
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              350                          355                          360
cat ttc tgt aaa tac cag att gaa gtg ctg acc agt gga act gtt tac    1274
His Phe Cys Lys Tyr Gln Ile Glu Val Leu Thr Ser Gly Thr Val Tyr
    365                 370                 375

ctg gct gac att ctc ttc tgt gag tca gcc ctc ttt tat ttc tct gag    1322
Leu Ala Asp Ile Leu Phe Cys Glu Ser Ala Leu Phe Tyr Phe Ser Glu
380                 385                 390                 395

tac atg gaa aaa gag gat gca gtg aat atc tta caa ttc tgg ttg gca    1370
Tyr Met Glu Lys Glu Asp Ala Val Asn Ile Leu Gln Phe Trp Leu Ala
                400                 405                 410

gca gat aac ttc cag tct cag ctt gct gcc aaa aag ggg caa tat gat    1418
Ala Asp Asn Phe Gln Ser Gln Leu Ala Ala Lys Lys Gly Gln Tyr Asp
            415                 420                 425

gga cag gag gca cag aat gat gcc atg att tta tat gac aag tac ttc    1466
Gly Gln Glu Ala Gln Asn Asp Ala Met Ile Leu Tyr Asp Lys Tyr Phe
            430                 435                 440

tcc ctc caa gcc aca cat cct ctt gga ttt gat gat gtt gta cga tta    1514
Ser Leu Gln Ala Thr His Pro Leu Gly Phe Asp Asp Val Val Arg Leu
        445                 450                 455

gaa att gaa tcc aat atc tgc agg gaa ggt ggg cca ctc ccc aac tgt    1562
Glu Ile Glu Ser Asn Ile Cys Arg Glu Gly Gly Pro Leu Pro Asn Cys
460                 465                 470                 475

ttc aca act cca tta cgt cag gcc tgg aca acc atg gag aag gtc ttt    1610
Phe Thr Thr Pro Leu Arg Gln Ala Trp Thr Thr Met Glu Lys Val Phe
                480                 485                 490

ttg cct ggc ttt ctg tcc agc aat ctt tat tat aaa tat ttg aat gat    1658
Leu Pro Gly Phe Leu Ser Ser Asn Leu Tyr Tyr Lys Tyr Leu Asn Asp
                495                 500                 505

ctc atc cat tcg gtt cga gga gat gaa ttt ctg ggc ggg aac gtg tcg    1706
Leu Ile His Ser Val Arg Gly Asp Glu Phe Leu Gly Gly Asn Val Ser
            510                 515                 520

ccg act gct cct ggc tct gtt ggc cct cct gat gag tct cac cca ggg    1754
Pro Thr Ala Pro Gly Ser Val Gly Pro Pro Asp Glu Ser His Pro Gly
        525                 530                 535

agt tct gac agc tct gcg tct cag tcc agt gtg aaa aaa gcc agt att    1802
Ser Ser Asp Ser Ser Ala Ser Gln Ser Ser Val Lys Lys Ala Ser Ile
540                 545                 550                 555

aaa ata ctg aaa aat ttt gat gaa gcg ata att gtg gat gcg gca agt    1850
Lys Ile Leu Lys Asn Phe Asp Glu Ala Ile Ile Val Asp Ala Ala Ser
                560                 565                 570

ctg gat cca gaa tct tta tat caa cgg aca tat gcc ggg aag atg aca    1898
Leu Asp Pro Glu Ser Leu Tyr Gln Arg Thr Tyr Ala Gly Lys Met Thr
            575                 580                 585

ttt gga aga gtg agt gac ttg ggg caa ttc atc cgg gaa tct gag cct    1946
Phe Gly Arg Val Ser Asp Leu Gly Gln Phe Ile Arg Glu Ser Glu Pro
            590                 595                 600

gaa cct gat gta agg aaa tca aaa gga tcc atg ttc tca caa gct atg    1994
Glu Pro Asp Val Arg Lys Ser Lys Gly Ser Met Phe Ser Gln Ala Met
        605                 610                 615
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aag aaa tgg gtg caa gga aat act gat gag gcc cag gaa gag cta gct      2042
Lys Lys Trp Val Gln Gly Asn Thr Asp Glu Ala Gln Glu Glu Leu Ala
620                 625                 630                 635

tgg aag att gct aaa atg ata gtc agt gac att atg cag cag gct cag      2090
Trp Lys Ile Ala Lys Met Ile Val Ser Asp Ile Met Gln Gln Ala Gln
                640                 645                 650

tat gat caa ccg tta gag aaa tct aca aag tta tga ctcaaaactt          2136
Tyr Asp Gln Pro Leu Glu Lys Ser Thr Lys Leu  *
                655                 660

gagataaagg aaatctgctt gtgaaaaata agagaacttt tttcccttgg ttggattctt   2196
caacacagcc aatgaaaaca gcactatatt tctgatctgt cactgttgtt tccagggaga   2256
gaatggggag acaatcctag gacttccacc ctaatgcagt tacctgtagg gcataattgg   2316
atggcacatg atgtttcaca cagtgaggag tctttaaagg ttaccaa               2363
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<212> PRT
<213> Homo Sapiens

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            20                  25                  30
Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser Ile Lys Ala Ser Ile
        35                  40                  45
Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn His Ala Leu Leu Glu
    50                  55                  60
Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala Ile Ser Ala Asn Met
65                  70                  75                  80
Asp Ser Phe Ser Ser Ser Arg Thr Ala Thr Leu Lys Lys Gln Pro Ser
                85                  90                  95
His Met Glu Ala Ala His Phe Gly Asp Leu Gly Arg Ser Cys Leu Asp
            100                 105                 110
Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser Lys Thr Leu Glu Gln
        115                 120                 125
Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe Ile Gln Phe Met Glu
    130                 135                 140
Leu Arg Arg Met Glu His Leu Val Lys Phe Trp Leu Glu Ala Glu Ser
145                 150                 155                 160
Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala His Ser Leu Asn Thr
                165                 170                 175
Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser Pro Ser Lys Lys His
            180                 185                 190
Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu Asp Lys Arg Leu Glu
        195                 200                 205
Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His Ser Glu Gly Ile Asp
    210                 215                 220
Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His Leu Leu Leu Ser Gln
225                 230                 235                 240
Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu Met Ala Arg Ala Gly
                245                 250                 255
Thr His Gln Val Ser Met Glu Thr Gln Glu Ser Ser Ser Thr Leu Thr
            260                 265                 270
Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu Lys Glu Leu Ser Gly
        275                 280                 285
Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val Asn Thr Phe Thr Lys
    290                 295                 300
Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro Ile Thr Glu Ala Met
305                 310                 315                 320
Arg Asn Asp Ile Ile Ala Arg Ile Cys Gly Glu Asp Gly Gln Val Asp
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                    325                  330                     335
Pro Asn Cys Phe Val Leu Ala Gln Ser Ile Val Phe Ser Ala Met Glu
                340                  345                  350
Gln Glu His Phe Ser Glu Phe Leu Arg Ser His His Phe Cys Lys Tyr
            355                  360                  365
Gln Ile Glu Val Leu Thr Ser Gly Thr Val Tyr Leu Ala Asp Ile Leu
        370                  375                  380
Phe Cys Glu Ser Ala Leu Phe Tyr Phe Ser Glu Tyr Met Glu Lys Glu
385                  390                  395                  400
Asp Ala Val Asn Ile Leu Gln Phe Trp Leu Ala Ala Asp Asn Phe Gln
                405                  410                  415
Ser Gln Leu Ala Ala Lys Lys Gly Gln Tyr Asp Gly Gln Glu Ala Gln
                420                  425                  430
Asn Asp Ala Met Ile Leu Tyr Asp Lys Tyr Phe Ser Leu Gln Ala Thr
            435                  440                  445
His Pro Leu Gly Phe Asp Asp Val Val Arg Leu Glu Ile Glu Ser Asn
    450                  455                  460
Ile Cys Arg Glu Gly Gly Pro Leu Pro Asn Cys Phe Thr Thr Pro Leu
465                  470                  475                  480
Arg Gln Ala Trp Thr Thr Met Glu Lys Val Phe Leu Pro Gly Phe Leu
                485                  490                  495
Ser Ser Asn Leu Tyr Tyr Lys Tyr Leu Asn Asp Leu Ile His Ser Val
                500                  505                  510
Arg Gly Asp Glu Phe Leu Gly Gly Asn Val Ser Pro Thr Ala Pro Gly
            515                  520                  525
Ser Val Gly Pro Pro Asp Glu Ser His Pro Gly Ser Ser Asp Ser Ser
        530                  535                  540
Ala Ser Gln Ser Ser Val Lys Lys Ala Ser Ile Lys Ile Leu Lys Asn
545                  550                  555                  560
Phe Asp Glu Ala Ile Ile Val Asp Ala Ala Ser Leu Asp Pro Glu Ser
                565                  570                  575
Leu Tyr Gln Arg Thr Tyr Ala Gly Lys Met Thr Phe Gly Arg Val Ser
                580                  585                  590
Asp Leu Gly Gln Phe Ile Arg Glu Ser Glu Pro Glu Pro Asp Val Arg
            595                  600                  605
Lys Ser Lys Gly Ser Met Phe Ser Gln Ala Met Lys Lys Trp Val Gln
    610                  615                  620
Gly Asn Thr Asp Glu Ala Gln Glu Glu Leu Ala Trp Lys Ile Ala Lys
625                  630                  635                  640
Met Ile Val Ser Asp Ile Met Gln Gln Ala Gln Tyr Asp Gln Pro Leu
                645                  650                  655
Glu Lys Ser Thr Lys Leu
                660
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<212> DNA
<213> Homo Sapiens

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<222> (138)...(2126)
<223> AKAP-10-5

<221> allele
<222> 2073
<223> Single Nucleotide Polymorphism: A to G

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ccactcccgg aagaagggtc ccttttcgcg ctagtgcagc ggccctctg dacccggaag     120
tccgggccgg ttgctga atg agg gga gcc ggg ccc tcc ccg cgc cag tcc        170
                    Met Arg Gly Ala Gly Pro Ser Pro Arg Gln Ser
                     1               5                  10
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ccc cgc acc ctc cgt ccc gac ccg ggc ccc gcc atg tcc ttc ttc cgg    218
Pro Arg Thr Leu Arg Pro Asp Pro Gly Pro Ala Met Ser Phe Phe Arg
            15              20                      25

cgg aaa gtg aaa ggc aaa gaa caa gag aag acc tca gat gtg aag tcc    266
Arg Lys Val Lys Gly Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser
        30              35                  40

att aaa gct tca ata tcc gta cat tcc cca caa aaa agc act aaa aat    314
Ile Lys Ala Ser Ile Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn
        45              50                  55

cat gcc ttg ctg gag gct gca gga cca agt cat gtt gca atc aat gcc    362
His Ala Leu Leu Glu Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala
60              65              70                      75

att tct gcc aac atg gac tcc ttt tca agt agc agg aca gcc aca ctt    410
Ile Ser Ala Asn Met Asp Ser Phe Ser Ser Ser Arg Thr Ala Thr Leu
                80              85                  90

aag aag cag cca agc cac atg gag gct gct cat ttt ggt gac ctg ggc    458
Lys Lys Gln Pro Ser His Met Glu Ala Ala His Phe Gly Asp Leu Gly
                95              100             105

aga tct tgt ctg gac tac cag act caa gag acc aaa tca agc ctt tct    506
Arg Ser Cys Leu Asp Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser
        110             115                 120

aag acc ctt gaa caa gtc ttg cac gac act att gtc ctc cct tac ttc    554
Lys Thr Leu Glu Gln Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe
        125             130                 135

att caa ttc atg gaa ctt cgg cga atg gag cat ttg gtg aaa ttt tgg    602
Ile Gln Phe Met Glu Leu Arg Arg Met Glu His Leu Val Lys Phe Trp
140             145                 150                 155

tta gag gct gaa agt ttt cat tca aca act tgg tcg cga ata aga gca    650
Leu Glu Ala Glu Ser Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala
                160                 165                 170

cac agt cta aac aca atg aag cag agc tca ctg gct gag cct gtc tct    698
His Ser Leu Asn Thr Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser
                175                 180                 185

cca tct aaa aag cat gaa act aca gcg tct ttt tta act gat tct ctt    746
Pro Ser Lys Lys His Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu
        190                 195                 200

gat aag aga ttg gag gat tct ggc tca gca cag ttg ttt atg act cat    794
Asp Lys Arg Leu Glu Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His
        205                 210                 215

tca gaa gga att gac ctg aat aat aga act aac agc act cag aat cac    842
Ser Glu Gly Ile Asp Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His
220                 225                 230                 235

ttg ctg ctt tcc cag gaa tgt gac agt gcc cat tct ctc cgt ctt gaa    890
Leu Leu Leu Ser Gln Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu
                240                 245                 250

atg gcc aga gca gga act cac caa gtt tcc atg gaa acc caa gaa tct    938
Met Ala Arg Ala Gly Thr His Gln Val Ser Met Glu Thr Gln Glu Ser
                255                 260                 265

tcc tct aca ctt aca gta gcc agt aga aat agt ccc gct tct cca cta    986
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Ser Ser Thr Leu Thr Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu
        270             275             280

aaa gaa ttg tca gga aaa cta atg aaa agt ata gaa caa gat gca gtg      1034
Lys Glu Leu Ser Gly Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val
        285             290             295

aat act ttt acc aaa tat ata tct cca gat gct gct aaa cca ata cca      1082
Asn Thr Phe Thr Lys Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro
300             305             310             315

att aca gaa gca atg aga aat gac atc ata gca agg att tgt gga gaa      1130
Ile Thr Glu Ala Met Arg Asn Asp Ile Ile Ala Arg Ile Cys Gly Glu
                320             325             330

gat gga cag gtg gat ccc aac tgt ttc gtt ttg gca cag tcc ata gtc      1178
Asp Gly Gln Val Asp Pro Asn Cys Phe Val Leu Ala Gln Ser Ile Val
                335             340             345

ttt agt gca atg gag caa gag cac ttt agt gag ttt ctg cga agt cac      1226
Phe Ser Ala Met Glu Gln Glu His Phe Ser Glu Phe Leu Arg Ser His
                350             355             360

cat ttc tgt aaa tac cag att gaa gtg ctg acc agt gga act gtt tac      1274
His Phe Cys Lys Tyr Gln Ile Glu Val Leu Thr Ser Gly Thr Val Tyr
        365             370             375

ctg gct gac att ctc ttc tgt gag tca gcc ctc ttt tat ttc tct gag      1322
Leu Ala Asp Ile Leu Phe Cys Glu Ser Ala Leu Phe Tyr Phe Ser Glu
380             385             390             395

tac atg gaa aaa gag gat gca gtg aat atc tta caa ttc tgg ttg gca      1370
Tyr Met Glu Lys Glu Asp Ala Val Asn Ile Leu Gln Phe Trp Leu Ala
                400             405             410

gca gat aac ttc cag tct cag ctt gct gcc aaa aag ggg caa tat gat      1418
Ala Asp Asn Phe Gln Ser Gln Leu Ala Ala Lys Lys Gly Gln Tyr Asp
                415             420             425

gga cag gag gca cag aat gat gcc atg att tta tat gac aag tac ttc      1466
Gly Gln Glu Ala Gln Asn Asp Ala Met Ile Leu Tyr Asp Lys Tyr Phe
        430             435             440

tcc ctc caa gcc aca cat cct ctt gga ttt gat gat gtt gta cga tta      1514
Ser Leu Gln Ala Thr His Pro Leu Gly Phe Asp Asp Val Val Arg Leu
        445             450             455

gaa att gaa tcc aat atc tgc agg gaa ggt ggg cca ctc ccc aac tgt      1562
Glu Ile Glu Ser Asn Ile Cys Arg Glu Gly Gly Pro Leu Pro Asn Cys
460             465             470             475

ttc aca act cca tta cgt cag gcc tgg aca acc atg gag aag gtc ttt      1610
Phe Thr Thr Pro Leu Arg Gln Ala Trp Thr Thr Met Glu Lys Val Phe
                480             485             490

ttg cct ggc ttt ctg tcc agc aat ctt tat tat aaa tat ttg aat gat      1658
Leu Pro Gly Phe Leu Ser Ser Asn Leu Tyr Tyr Lys Tyr Leu Asn Asp
                495             500             505

ctc atc cat tcg gtt cga gga gat gaa ttt ctg ggc ggg aac gtg tcg      1706
Leu Ile His Ser Val Arg Gly Asp Glu Phe Leu Gly Gly Asn Val Ser
                510             515             520

ccg act gct cct ggc tct gtt ggc cct cct gat gag tct cac cca ggg      1754
Pro Thr Ala Pro Gly Ser Val Gly Pro Pro Asp Glu Ser His Pro Gly
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              525                         530                         535
     agt tct gac agc tct gcg tct cag tcc agt gtg aaa aaa gcc agt att    1802
     Ser Ser Asp Ser Ser Ala Ser Gln Ser Ser Val Lys Lys Ala Ser Ile
     540                     545                 550                 555

     aaa ata ctg aaa aat ttt gat gaa gcg ata att gtg gat gcg gca agt    1850
     Lys Ile Leu Lys Asn Phe Asp Glu Ala Ile Ile Val Asp Ala Ala Ser
                         560                 565             570

     ctg gat cca gaa tct tta tat caa cgg aca tat gcc ggg aag atg aca    1898
     Leu Asp Pro Glu Ser Leu Tyr Gln Arg Thr Tyr Ala Gly Lys Met Thr
                     575                 580             585

     ttt gga aga gtg agt gac ttg ggg caa ttc atc cgg gaa tct gag cct    1946
     Phe Gly Arg Val Ser Asp Leu Gly Gln Phe Ile Arg Glu Ser Glu Pro
                 590                 595                 600

     gaa cct gat gta agg aaa tca aaa gga tcc atg ttc tca caa gct atg    1994
     Glu Pro Asp Val Arg Lys Ser Lys Gly Ser Met Phe Ser Gln Ala Met
                 605                 610                 615

     aag aaa tgg gtg caa gga aat act gat gag gcc cag gaa gag cta gct    2042
     Lys Lys Trp Val Gln Gly Asn Thr Asp Glu Ala Gln Glu Glu Leu Ala
     620                     625                 630                 635

     tgg aag att gct aaa atg ata gtc agt gac gtt atg cag cag gct cag    2090
     Trp Lys Ile Ala Lys Met Ile Val Ser Asp Val Met Gln Gln Ala Gln
                         640                 645                 650

     tat gat caa ccg tta gag aaa tct aca aag tta tga ctcaaaactt         2136
     Tyr Asp Gln Pro Leu Glu Lys Ser Thr Lys Leu  *
                     655                 660

     gagataaagg aaatctgctt gtgaaaaata agagaacttt tttcccttgg ttggattctt  2196
     caacacagcc aatgaaaaca gcactatatt tctgatctgt cactgttgtt tccagggaga  2256
     gaatggggag acaatcctag gacttccacc ctaatgcagt tacctgtagg gcataattgg  2316
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<210> 4
<211> 662
<212> PRT
<213> Homo Sapiens

<400> 4

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            20                  25                  30
Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser Ile Lys Ala Ser Ile
        35                  40                  45
Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn His Ala Leu Leu Glu
    50                  55                  60
Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala Ile Ser Ala Asn Met
65                  70                  75                  80
Asp Ser Phe Ser Ser Ser Arg Thr Ala Thr Leu Lys Lys Gln Pro Ser
            85                  90                  95
His Met Glu Ala Ala His Phe Gly Asp Leu Gly Arg Ser Cys Leu Asp
            100                 105                 110
Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser Lys Thr Leu Glu Gln
        115                 120                 125
Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe Ile Gln Phe Met Glu
    130                 135                 140
Leu Arg Arg Met Glu His Leu Val Lys Phe Trp Leu Glu Ala Glu Ser
145                 150                 155                 160
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Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala His Ser Leu Asn Thr
                165                 170                 175
Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser Pro Ser Lys Lys His
                180                 185                 190
Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu Asp Lys Arg Leu Glu
                195                 200                 205
Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His Ser Glu Gly Ile Asp
        210                 215                 220
Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His Leu Leu Leu Ser Gln
225                 230                 235                 240
Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu Met Ala Arg Ala Gly
                245                 250                 255
Thr His Gln Val Ser Met Glu Thr Gln Glu Ser Ser Ser Thr Leu Thr
                260                 265                 270
Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu Lys Glu Leu Ser Gly
            275                 280                 285
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